Operating instructions part 1
Connection and Setup

UFS 932
English

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If you do not know the configuration of your satellite reception system, contact your specialist dealer for the first installation of your receiver.

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Safety Instructions – Important Notes

These two pages contain important information about operation, installation location and connection of the unit. Read these instructions carefully before setting up the unit.

Danger!

Mains cable

Make sure that the mains cable (power supply cable) is not damaged. Units with a damaged mains cable must be disconnected from the mains (unplugged at the mains power socket) and repaired by an electrical specialist before being used. Only use the power supply unit supplied (if available).

Risk of fatal injury due to electric shock!

Cleaning

Disconnect the mains plug before cleaning the unit. Only use a dry cloth for cleaning and only clean the outer surface. Never open the casing of the unit.

Touching the parts inside the unit carries a risk of death due to electric shock.

Playing children

Make sure that children do not push any objects into the ventilation slots.

Risk of fatal injury due to electric shock!

Warning!

Earthing

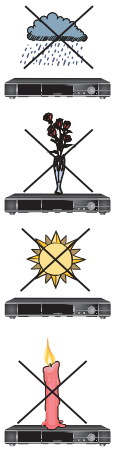
The antenna system must be earthed as specified or equipotentially bonded. EN 60728/11 and any national regulations must be complied with.

Risk of voltage surges due to lightning strikes!

Power supply voltage

Operate the unit only at the specified mains voltage (indicated on the rear of the unit or on the external power supply unit). The unit may only be connected to the mains and turned on once it has been connected to the antenna and to the TV set or the cable network and PC.

If the mains voltage is too high, there is a risk of fire.



Moisture, direct sunlight, heat, naked flames

Protect the unit against moisture, dripping and splashed water (do not place any filled objects such as vases on top of the unit). Do not place the unit close to a heater or expose it to direct sunlight and do not operate it in damp locations. Only use the unit in a moderate climate, not in tropical conditions! Place no naked flames such as candles on top of the unit!

There is a risk of fire!

Batteries

If your unit was supplied with batteries (e.g. for the remote control), take care that the batteries are not exposed to excessively high temperatures, direct sunshine or fire. Exchange the batteries only with types that are identical or equivalent. Otherwise the batteries and also the remote control may be damaged. Comply also with the safety instructions stated on the batteries:

There is a risk of explosions!

Warning!

Warning!

Ventilation

The heat generated in this unit is adequately dissipated. However, the unit should never be installed in a cupboard or on shelves with inadequate ventilation. Never cover the cooling slots on the unit (e.g. with other equipment, magazines, tablecloths, clothing or curtains).
Do not place any objects on top of the unit. Unless stated to the contrary in the “Connection and Setup” and “Installation” sections in the manual included, maintain a clearance of at least 10 cm above the unit, 2 cm to either side and 5 cm behind the unit, to allow unobstructed dissipation of the heat generated.

There is a risk of fire!

Do not cover

→

Safety Instructions – Important Notes

Important

Repairs

Ensure that any repairs to your unit are carried out by qualified personnel. Opening the unit and attempting to repair it yourself will invalidate the warranty!
Improper work on the unit may jeopardise the electrical safety of the unit.

The manufacturer accepts no liability for accidents caused by the user opening the casing of the unit.

Connections

Incorrect wiring of the connections can lead to malfunctions or defects on the unit.

Periods of extended absence, thunderstorms, mains socket accessibility

In order to disconnect the unit from the mains completely, the mains plug must be unplugged from the wall socket! Therefore install the unit close to a mains socket and make sure this socket is accessible at all times, so that you can disconnect the unit from the mains if necessary.
If you are away for an extended period, and during thunderstorms, always switch the unit off at the mains and unplug it from the socket. This also applies to the other equipment connected to the unit. Isolation from the cable network is also recommended. Note any timer programming (receiver) and turn the unit on again promptly before the recording time.

Installation location

All electronic equipment generates heat, However, the heating of this unit lies within the permissible range. Sensitive furniture surfaces and veneers may become discoloured by the effects of constant heat over time. The feet of the unit can also cause colour changes to treated furniture surfaces. If necessary, place the unit on a suitable stable and flat base.

Electronic equipment is not domestic waste - it must be disposed of properly in accordance with directive 2002/96/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL dated 27th January 2003 concerning used electrical and electronic appliances.
At the end of its service life, take this device for disposal at a designated public collection point.

Spent batteries are special waste!

Do not throw spent batteries into your domestic waste; take them to a collection point for spent batteries.

Safety Instructions – Important Notes

Product return/original packaging

Please keep the original packaging in case you need to return the product at any time. The receivers are fragile due to their construction and are only adequately protected by the original packaging. If the receiver is not shipped correctly the guarantee/warranty on it will be voided.

Ventilation slots on the unit

Warning!

Make sure that the ventilation slots on the unit are not blocked or covered in any way. Otherwise the unit may overheat.

There is a risk of fire!

Switching the receiver off

Before you switch disconnect the receiver from the mains, you must switch it to the standby mode by pressing the stand-by button (on/off) on the remote control. In standby mode, any changed or new data that are broadcast will be saved by the receiver. As soon as the receiver is in the standby mode, it can be disconnected from the mains at any time.

You must not disconnect the receiver from the mains while it is in operation! This can lead to a loss of data and corruption of the software.

Miscellaneous

The information in this operating manual was correct at the time of going to print. We reserve the right however to make changes at any time and without prior notice. If new software is released for your receiver, and this affects the information in the operating manual (e.g. changes to the menus and/or functions), if we believe it necessary we will make available a new operating manual for download under “www.kathrein.de”.

Make a note of the receiver's basic settings (these are set during the first installation), so you can restore them if necessary!

Please be aware of your responsibility towards your fellow man! Keep the manual for any questions that arise later, and if the building passes to another owner, pass it on to the new owner!

Scope of supply

- UFS 932
- HD+ smartcard
- Remote control RC 674
- HDMI cable
- 2 batteries AAA 1.5 V
- Operating instructions (part 1 and part 2)
- Safety instructions (multi-lingual)
- HD+ flyer

The accessories supplied may differ in appearance from those illustrated!

HDMI cable

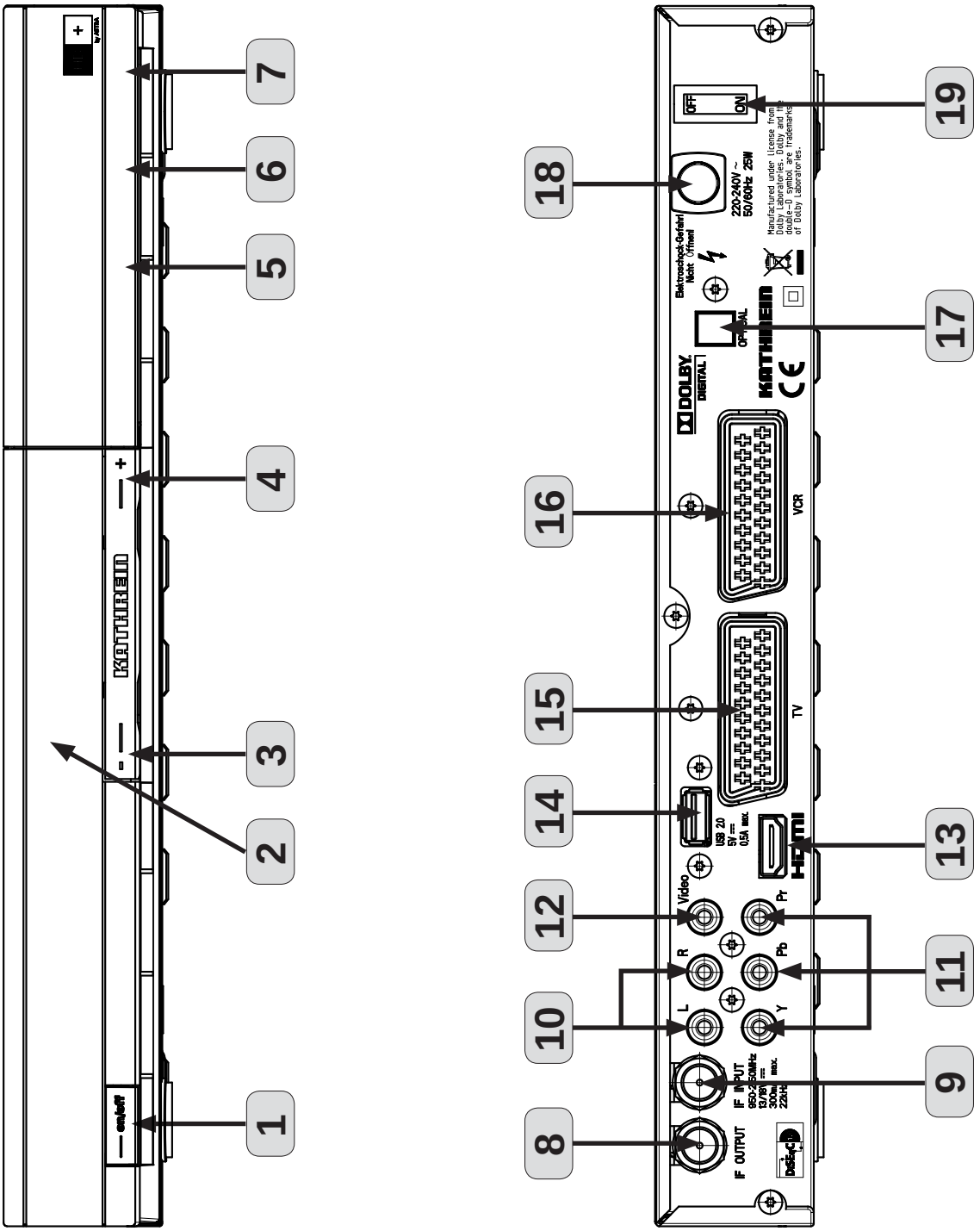
Smartcard

Batteries

Remote Control

Connection and setup

Front/rear view of the receiver (front flap open)



Connection and setup

Front:

1. On/Off (operation/stand-by)
2. 4-character numeric display
3. Channel selection button (-)
4. Channel selection button (+)
5. Card reader (Nagravision integrated - for HD+ card)
6. Common Interface for one (CI+) CA module for Pay-TV cards *)
7 Button for ejecting the CA module

Rear view:

8. LNB loop-through input
9. LNB input
10. Audio outputs (L/R) - cinch sockets
11. 3 x Cinch connections for component outputs YUV labelled = Y/Pb/Pr
12. Video output (composite colour)
13. HDMI connection
14. USB 2.0 port (USB-A connector)
15. Scart socket for TV connection
16. Scart socket for VCR/AUX connection
17. Optical data stream output (SPDIF/Sony Philips Digital Interface Format) for Dolby Digital AC 3 audio
18. Mains power cable
19. On/Off switch **)

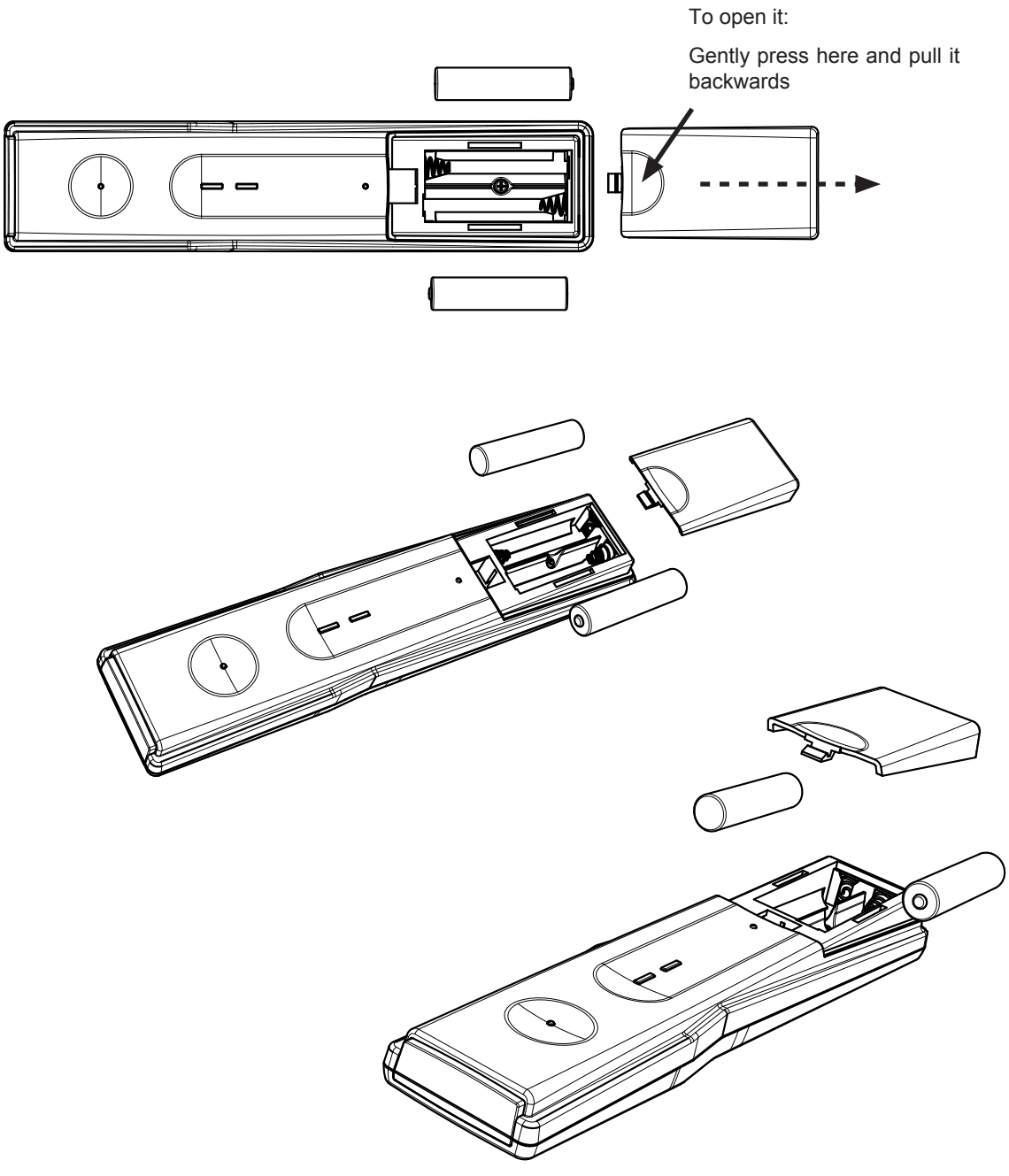
*) CA modules and smartcards are not included with this product

**) The unit is not fully disconnected from the mains (see the sections “Safety Instructions - Important Instructions” and “Periods of extended absence, thunderstorms, mains socket accessibility”)

Connection and setup

Inserting batteries into the remote control

Remove the cover on the rear of the remote control. Insert the two batteries supplied into the remote control. Ensure correct polarity of the batteries; the + and – markings as indicated inside the battery compartment. Slide the cover back onto the housing until it locks in place.



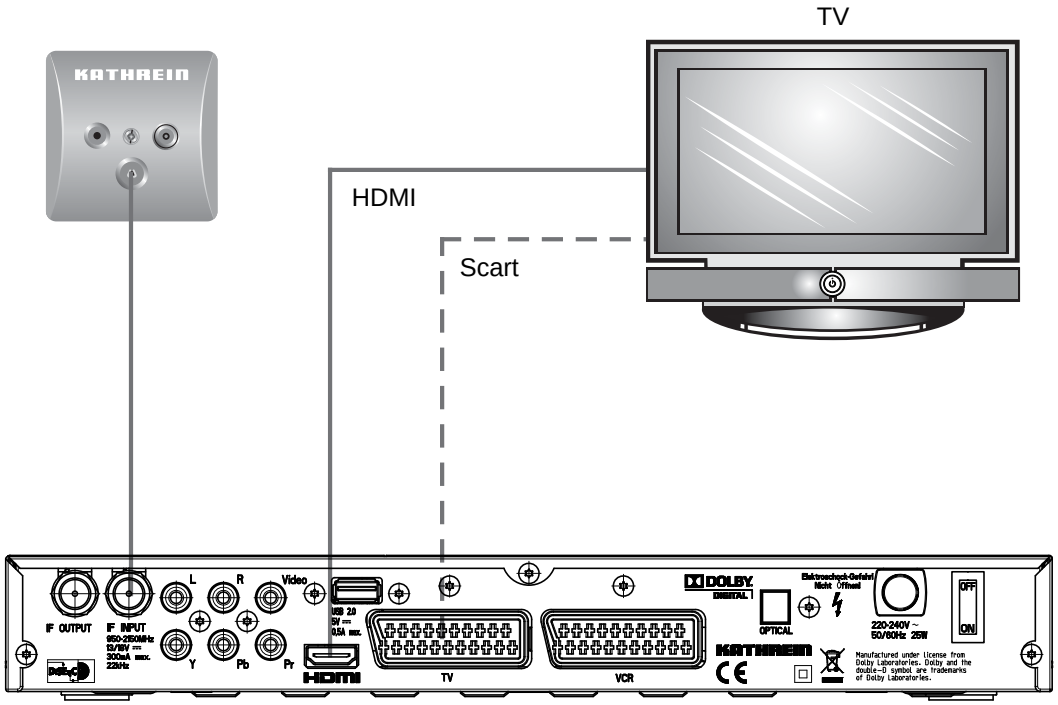
Connection and setup

Connecting the receiver

If you do not know the configuration of your satellite reception system, contact your specialist dealer.

Connect the Sat IF inputs on the receiver to the satellite reception system. Use coaxial cable with an F standard connector (see illustration on right).

Conventional DiSEqC™ system



TV connection

Connect the satellite receiver (HDMI or alternatively TV Scart socket) and the TV set using a HDMI or Scart cable (see the connection example above).

Connection and setup

Audio connection

Digital

There are two ways you can access the digital audio.

HDMI

The stereo audio is transmitted to your TV set via the HDMI interface. If your TV set also supports Dolby Digital, you can also receive the Dolby Digital audio via the HDMI interface (providing it is broadcast by the channel provider). On this issue refer to the operating manual for your TV set.

SPDIF Dolby Digital output (optical)

The SPDIF outputs are intended for the connection of a Dolby Digital system (see “Advanced connection example” in the technical appendix). Connect the SPDIF output (electrical or optical) to the Dolby Digital system using an appropriate cable.

Analogue

If you want to play the sound on your hi-fi system, connect the audio cinch sockets to the input sockets on the hi-fi system, using an appropriate cable (see “Advanced connection example” in the technical appendix).

Connecting up the Video/DVD recorder

Use a Scart cable to connect the satellite receiver (VCR Scart socket) to the video recorder/PVR. To play back a DVD, i.e. output the signal from the PVR through the receiver on the TV set, the TV set must also be connected to the receiver with a Scart cable. This is necessary because the video signal from the VCR Scart socket of the receiver is not looped through / forwarded to the HDMI output of the receiver.

Tipp!

If you are recording via an external video recorder/DVD, remember not to operate the receiver during recording, otherwise all the on-screen displays will appear on your recording.

SPDIF = Sony Philips Digital Interface Format (digital output for Dolby Digital AC 3 audio)

Connection and setup

First Installation

Before you start to use the UFS 932, read the sections “Safety Instructions - Important Instructions”, “Important Information” and “Connection and Set-Up” through to the item “First Installation”.

Do not connect the unit to the mains until all installation work has been properly carried out.

The guidance provided in the “First Installation” section assumes that the receiver has been properly connected as per the “Safety Instructions - Important Information” and “Connection and Set-Up” chapters through to the “First Installation” section.

Required buttons on remote control for first installation:

0 ␣ ... 9 wxyz	Numeric entry	PIP (green)	Proceed to the next step in the first installation
FAV (red)	Go back one step in the first installation	OK	Confirm the changed values/ setting; call up the submenus
	Select/change individual menu parameters, navigation		
BACK	Cancel entry, go back		

First switch your TV set on and select the AV-/HDMI input you have used to connect the receiver to your TV set. Switch on the receiver at the power switch on the rear of the unit. Undertake the first installation. If you have any questions or encounter problems, contact your specialist dealer.

The following on-screen display appears:

Tipp!

Always pay attention to the bar at the bottom of the on-screen display. This provides information on what to do next.

Use the ▲ ▼ buttons to select the desired menu language for your UFS 932 and confirm your selection using the OK button.

The following languages are available: German, English, French, Italian, Spanish, Czech, Dutch, Polish Turkish and Russian.

Press the PIP (green) button to move to the next menu.

The following on-screen display appears:

Here you can use the buttons to select the correct local time setting (e.g. “Berlin” for Germany).

Press the PIP (green) button to move to the next menu.

Use the buttons here to select the basic settings for the video output from the receiver to the TV set.

For this, refer to the operating manual for your TV set and take care to select only those settings that your TV set can process.

Resolution (HDMI/YUV format)

Here you can select the video resolution that will be output at the TV set. Either

- 1080p (resolution 1920 x 1080, full-screen images)
- 1080i (resolution 1920 x 1080, half-screen images)
- 720p (resolution 1280 x 720, full-screen images)
- 576p (resolution 720 x 576, full-screen images)
- 576i (resolution 720 x 576, half-screen images)
- 480p (resolution 640 x 480, full-screen images)
- 480i (resolution 640 x 480, half-screen images)

No recording can be performed at video resolution 1080p.

This resolution can “only” be used for viewing the live signal.

TV Mode

This setting depends on the resolution previously selected and is performed automatically by the receiver.

TV Aspect Ratio

Here you can select the TV picture format. Either

- 4:3,
- 16:9 or
- Auto

Scaling Method

Here you can select the screen display mode:

- TV Scale The format transmitted by the programme provider is used
- Letterbox: The picture is reduced to suit the TV screen (there may be black bands above and below it)
- Pan & Scan: Zoomed in
- Zoom: Stretched (full screen)

HDCP Enabled

Here you can select whether HDCP (digital copy protection) is set to “On” at all times, or is “Off” - not activated.

To view some programmes it may be necessary for the setting to be set to “On”.

Video Output

Here you can select whether the receiver will output the RGB signal at the Scart sockets - selection “RGB” (Red/Green/Blue signal). If the setting “RGB” is selected, no TV signal can be output at the YPbPr sockets.

Important instruction for picture output using the “YPbPr” sockets:

If you TV set is connected to the receiver using the YPbPr sockets, it is essential that the video output setting “YPbPr” is selected.

Press the PIP (green) button to move to the next menu.

The following on-screen display appears:

The settings for the tuner configuration should be perfo rmed by a specialist engineer for this reception system.

Tipp!

If your receiver is connected as in the connection example (see "Connecting the receiver" in this section), no changes are necessary for the remainder of the first installation. If you are not familiar with the details of your reception system, note the following:

In many cases the satellite reception system is a DiSEqC™1.0 system. This type of system is preset.

Confirm the rest of the on-screen displays during the first installation using the PIP (green) button. You cannot damage your reception system during this process! If you do not receive a TV picture at the end of the first installation, contact your specialist dealer.

You should perform the antenna configuration / make changes yourself only if you are fully familiar with the particulars of your reception system.

The individual items are selected using the ▲ ▼ buttons. If you need to access sub-menus, they can be called up using the OK button. The changes to the current settings can be performed using the ◄ ► buttons or the number pad.

You can set up the antenna (tuner) configuration for the following types of reception systems:

- LNB only
- DiSEqC™1.0
- Unicable

Continue as described in the initial installation for the type of reception you have selected.

LNB only

Select Satellite

Use the ◄ ► buttons here to select the satellite whose signal is present at the tuner.

LNB Type

If your reception system does not have a Universal LNB, use the ◄ ► buttons to select the LNB types that are used in your reception system. You can choose from the following LNB types:

- Universal 1
- Broadband
- User or
- Standard

Refer to the documentation for your LNB or seek assistance from a specialist engineer.

Low Oscillation Frequency (LNB low frequency)

You only need to specify this data if your LNB type is not “Universal LNB”. For this, refer to the documentation supplied with your LNB. Enter the LNB low frequency, using the numeric pad or the ◄ ► buttons.

High Oscillation Frequency (LNB high frequency)

You only need to specify this data if your LNB type is not “Universal LNB”. Enter the LNB high frequency, using the numeric pad or the ◄ ► buttons.

22 kHz

This cannot be set and is not required

LNB Power

This is factory-set to “On”, but must be changed if your LNB has its own power supply. In most cases the LNB power supply is provided by the receiver.

(Test) transponder (TP)

Select the selection field “TP”. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings, press the

(green) button.

You will automatically be shown the display for “Update LCN List”. Continue the first installation with the “Update LCN List” selection.

LCN = Logical Channel Numbering. Channels are sorted according to a list held in the receiver.

DiSEqC™1.0

Select satellite and port (satellite slot)

Here you can select the satellites whose signals you wish to receive. Select only those satellites that are present in the signal at the tuner. You can set up a maximum of four satellites.

First use the ◄ ► buttons in the “Satellite” line to select the desired satellite, then in the “Port” line assign it the position “1” in the sequence of your satellites.

If you wish your system to receive signals from more than one satellite, switch back to the “Satellite” and select a second satellite. Then in the “Port” line assign this satellite the position “2” in the sequence.

Repeat this procedure until you have set up all the satellites whose signals you wish to receive.

(Test) transponder (TP)

Select the selection field “TP”. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings, press the PIP (green) button.

You will automatically be shown the display for “Update LCN List”. Continue the first installation with the “Update LCN List” selection.

LCN = Logical Channel Numbering. Channels are sorted according to a list held in the receiver.

Single Cable System

If you use a UAS 481 (single cable LNB) in your reception system, you are only allowed to select one satellite.

Select satellite and port (satellite slot)

Here you can select the satellites whose signals you wish to receive. Select only those satellites that are present in the signal at the tuner. You can set up a maximum of two satellites.

First use the ◄ ► buttons in the “Satellite” line to select the desired satellite, then in the “Port” line assign it the position “1”.

If you wish your system to receive signals from a second satellite, switch back to the “Satellite” and select the second satellite. Then in the “Port” line assign this satellite the position “2” in the sequence.

When setting of the assigned User Band (transmission channel) and the User Band Frequency (transmission frequency), please refer to the documentation supplied with your system. You will find there a printed list showing the assignment between the various transmission channels and the respective transmission frequencies. Please note also that multiple receivers cannot share the same frequencies / channels - the receivers would interfere with each other.

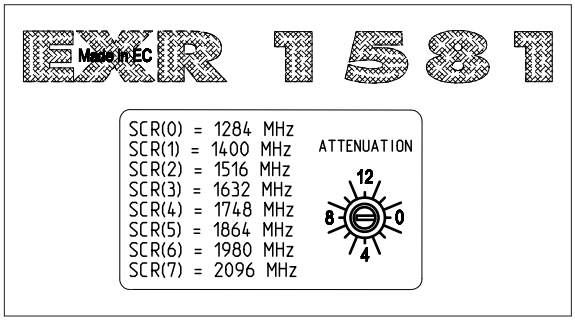
User Band (transmission channel)

Select a free available transmission channel (1-8).

User Band Frequency (frequency of the transmission channel)

Select here one of the free available transmission frequencies or use the numeric pad to input the required frequency.

See example on the right (EXR 1581) for assignment of a transmission channel to a transmission frequency.



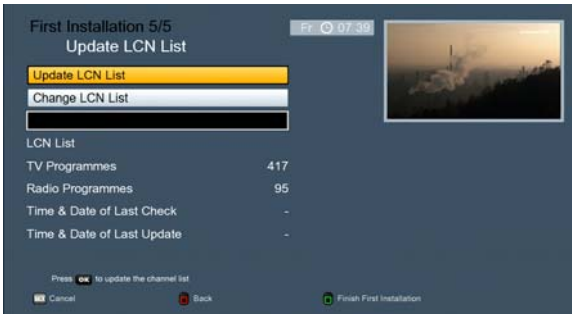
(Test) transponder (TP)

Select the selection field “TP”. Here you can select a transponder for checking whether your settings are correct using the signal strength bar and signal quality bar.

When you have completed all settings, press the PIP (green) button.

You will automatically be shown the display for “Update LCN List”. Continue the first installation with the “Update LCN List” selection.

Update LCN list



Select here whether you wish to use the channel list presorted in the factory (Update LCN List) or a channel list presorted for a specific country (Change LCN List).

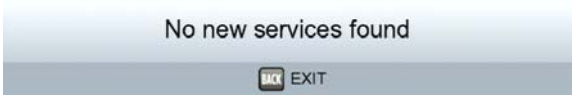
Update LCN List

Press the OK button to load a channel list presorted in the factory.

Change LCN List

Press the OK button to view the available channel lists, presorted for the respective country. Select the desired channel list and confirm your selection by pressing the OK button. During the loading procedure for the channel list the following display may appear:

Confirm with the BACK button.



As soon as the receiver has finished loading the channel list you can press the PIP (green) button to close the first installation.

LCN = Logical Channel Numbering.
Channels are sorted according to a list held in the receiver.

Connection and setup

Common Interface (CI)

Always follow the operating instructions from your Pay-TV provider and the instructions supplied with the Smartcard and the CA (Conditional Access) module!

Smart cards and CA modules are not included with this product!

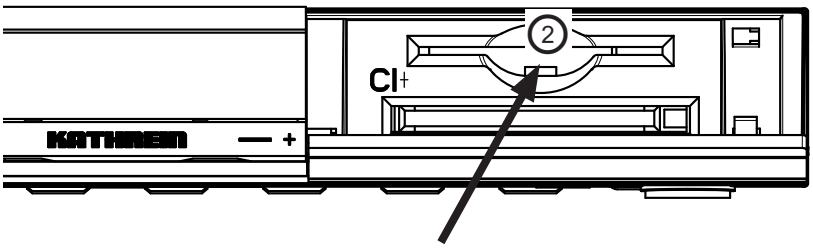
The cards and modules are issued by the respective pay TV providers, and contain the subscriber data and details of the channels for which the subscriber has paid. These channels are always scrambled.
Contact the Pay TV provider if you are interested in subscribing to a particular Pay TV channel.

You are responsible for the use of the smart card in the CA!

The smart card sold by the Pay TV provider, specific to a particular encryption technology, is inserted into the CA module.

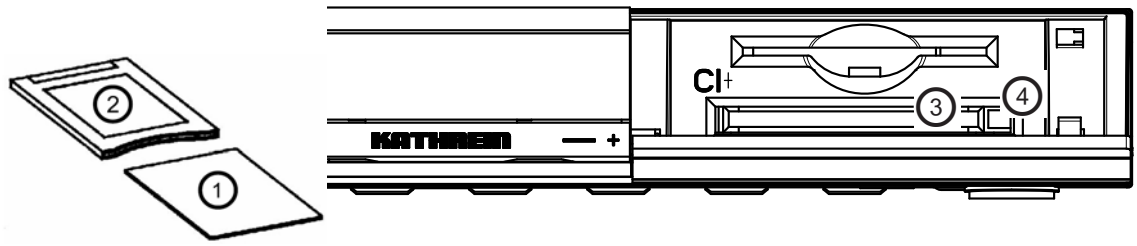
Store your card and PIN code securely when not in use!

Inserting the HD+ card in the smart card reader



The smart card reader (small slot) ② on the UFS 932 (Nagravision embedded) is intended to be used for the HD+ card. The smart card reader is behind the flap on right on the front underneath the Common Interface (large slot). It must be possible to insert the smart card (chip contacts pointing down) in the smart card reader without the need for a large amount of force. Do not use excessive force and pay attention to the manual supplied with the smart card.

Inserting the smart card and the CA module



Inserting the CA module into the CI

The Common Interface (CI+) (3) of the UFS 932 is suitable for insertion of a CI+ module (or CA module) and is located on the front panel of the receiver (behind the flap). The CA module (2) accepts the smart card (1) (chip contacts pointing downwards and towards socket strip) and is then inserted in the CI+ slot (3). The smart card should be inserted into the CI+ or CA module without exerting excessive force. The same applies to inserting the CI+ or CA module into the CI+ slot.

Do not use without excessive force, and follow the instructions supplied with the Smartcard and the CI+ or CA module. To remove the CI+ or CA module, press the ejection button (4) and pull it out straight backwards.

Troubleshooting

In the event of a malfunction, first check all the cable connections and operating states:

1. Receiver and TV set power plugs are connected to wall socket
2. Antenna cables are connected to the receiver input
3. Receiver and TV set correctly connected by a HDMI or Scart cable
4. Audio connections are made to the Hi-Fi or Dolby Digital system as appropriate
5. Receiver and TV set (Hi-Fi/Dolby Digital system) are switched on (check power indicators)
6. Receiver is responding to remote control

A selection of troubleshooting tips is offered below.

Problem	Cause	Remedy
A “No signal!” warning appears on some or all channels		Consult an antenna specialist to have it checked and repaired as necessary. Check the settings performed in the “Settings”, “Antenna & Satellite”, “Tuner-Configuration” menu, and change them if necessary.
Remote control no longer responds	The batteries may be flat or inserted incorrectly into the battery compartment.	Check the batteries (see also “Inserting batteries into the remote control” in these instructions)
Wrong time is displayed	The “Summertime” setting is wrong. An incorrect time was imported from the reception signal	Check the “Local Time Setting” in the “System Setup” menu, and change it if necessary. Use the power switch to switch the receiver off from the current channel, e.g. Das Erste or ZDF, wait 10 seconds and then switch it back on
The following channels cut out, or “No or bad signal!” appears: Sport 1, Tele 5, HSE 24 and Sonnenklar TV	DECT telephones operate on the same frequency as these channels. Interference may occur due to inadequate level or poor shielding of cable	Consult your antenna specialist

Service

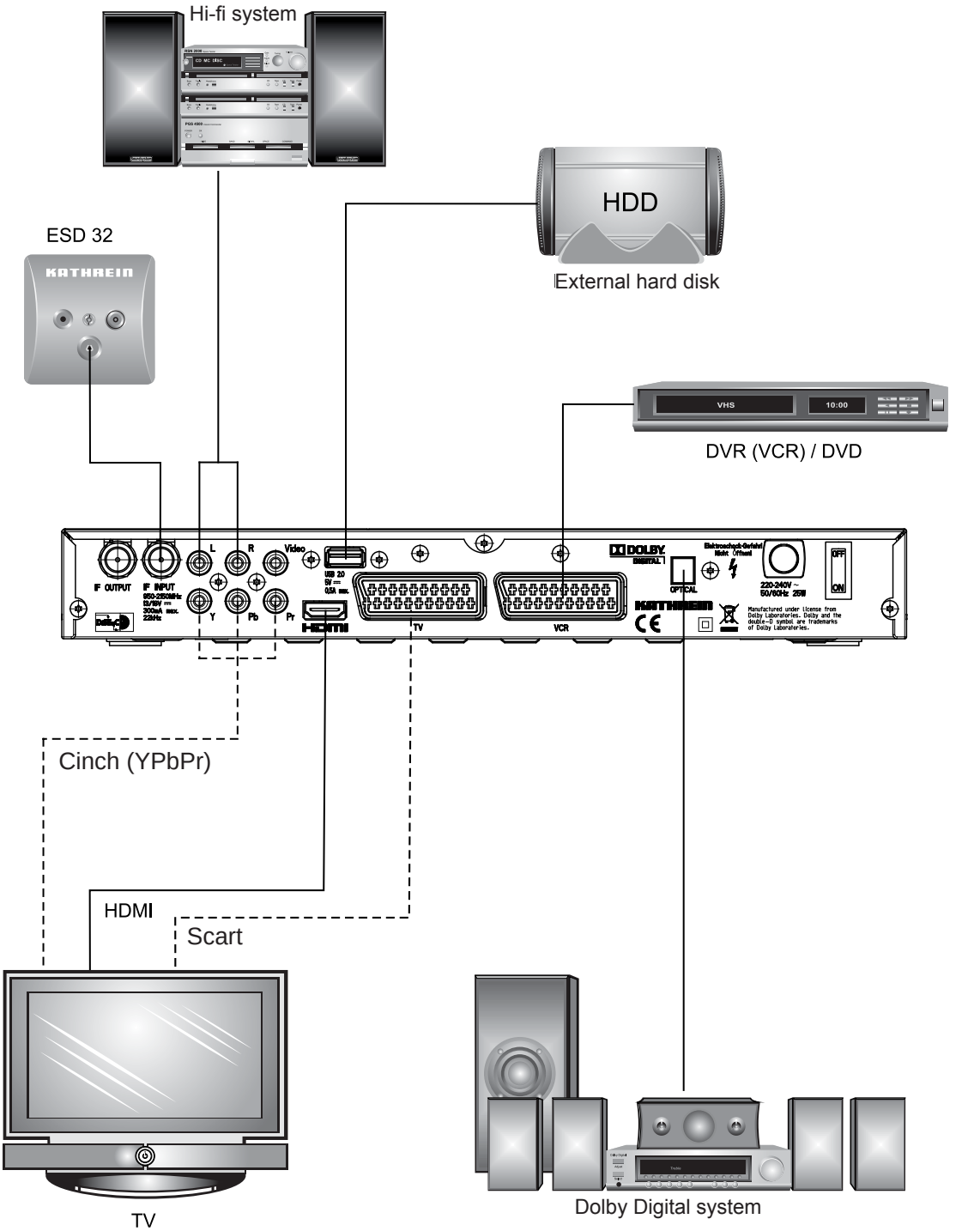
If, despite studying this operating manual, you still have questions about getting started with the unit or using it correctly, or if unexpected problems occur, please contact your specialist dealer. The Kathrein customer hotline is also at your disposal.

Tel: 0900/1122240 *

* (0.49 EUR per minute on Deutsche Telekom AG land lines, calls from mobile phones may cost more)

Technical appendix

Advanced connection example



Technical appendix

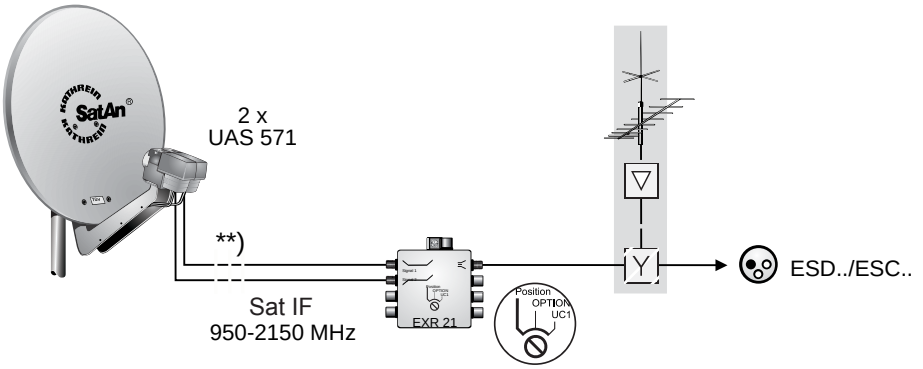
Technical Specifications

Type		UFS 932si/HD+	UFS 932sw/HD+
Order no./colour		20210188/silver	20210189/black
RF section			
Sat IF band	MHz	950-2150	
Input level band	dBµV	44-83	
TV system, video			
Modulation, FEC, demultiplexer		DVB-S-/DVB-S2 standard	
Video resolution		CCIR 601 (720 x 576 lines), 576i, 576p, 720p, 1080i, 1080p	
Video decryption		MPEG-2, MPEG-4-compatible	
Input data rate	MSymb/s	2-45 (30 for DVB-S2/8PSK)	
S/N	dB	≥ 53	
TV system, audio			
Decryption		AC 3, MPEG 1, layers 1 and 2	
Sampling rate	kHz	32/44,1/48	
S/N	dB	≥ 65	
Power Supply			
Power supply voltage	V/Hz	230 (+/- 10 %)/50-60	
Power consumption (max./typ. operation/standby)	W	< 25/12/1	
LNB supply (horiz./vert.)	V/mA	14/18; max. 350	
Control signal	kHz	22; DiSEqCTM1.0, SCR single-cable system	
Connections			
Sat IF input/output		2 x F socket	
TV/VCR connection		2 x Scart sockets	
Video output (analogue)		3 x Cinch socket (YPbPr)/1 x Cinch socket	
Video/audio output (digital)		1 x HDMI	
Audio output (analogue)		2 x Cinch sockets	
Audio output (digital)		Standard fibre-optic cable (SPDIF)	
Data interface			
Common Interface/encryption system		For 1 CI+ or CI module/Nagravision	
USB		1 x 2.0	
General information			
Ambient temperature	°C	Max. +5 to +40	
Unit dimensions (W x H x D)/weight	mm/kg	210 x 40 x 310/< 2	

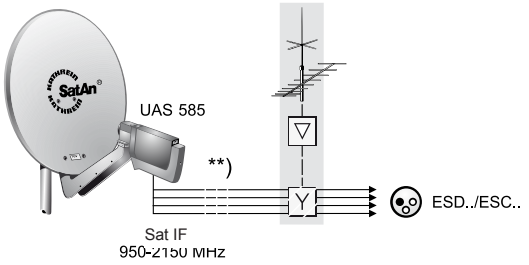
Technical appendix

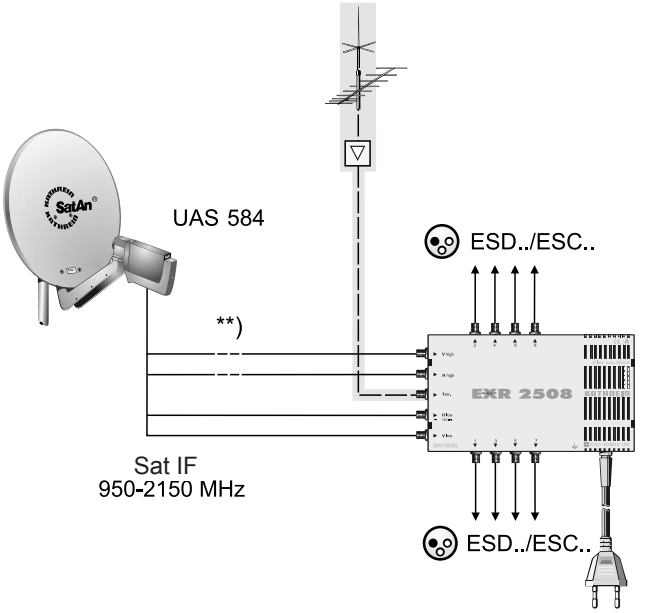
Sat IF connection examples

Individual reception systems



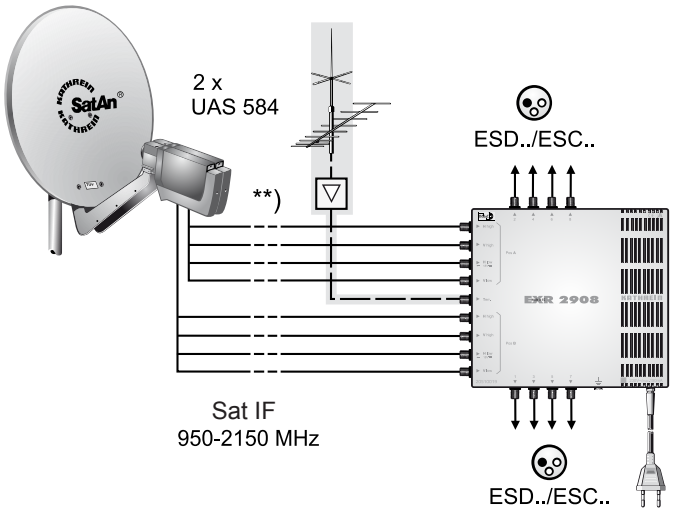
Community antenna network systems (4 x Sat IF)



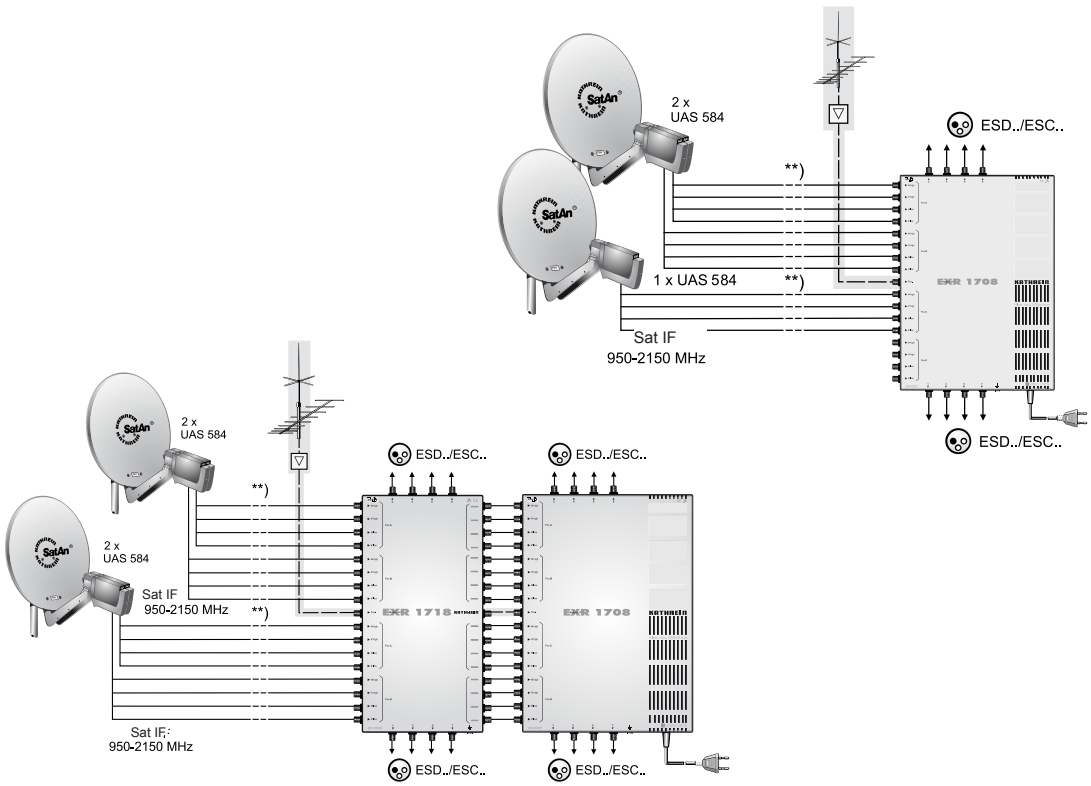


**) Overvoltage protection KAZ 11/KAZ 12

Community antenna network systems (8 x Sat IF), multi-feed

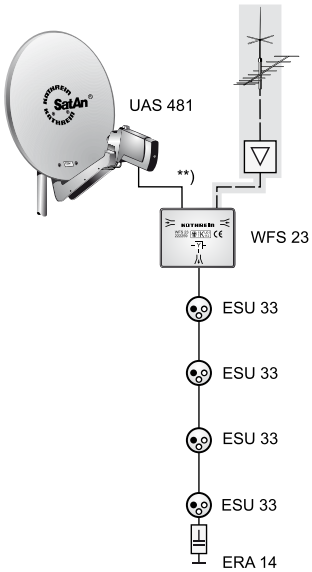


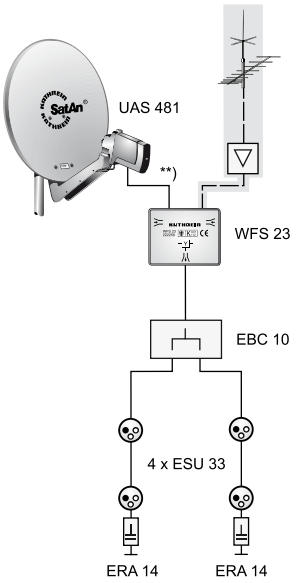
Community antenna network systems (16 x Sat IF), multi-feed

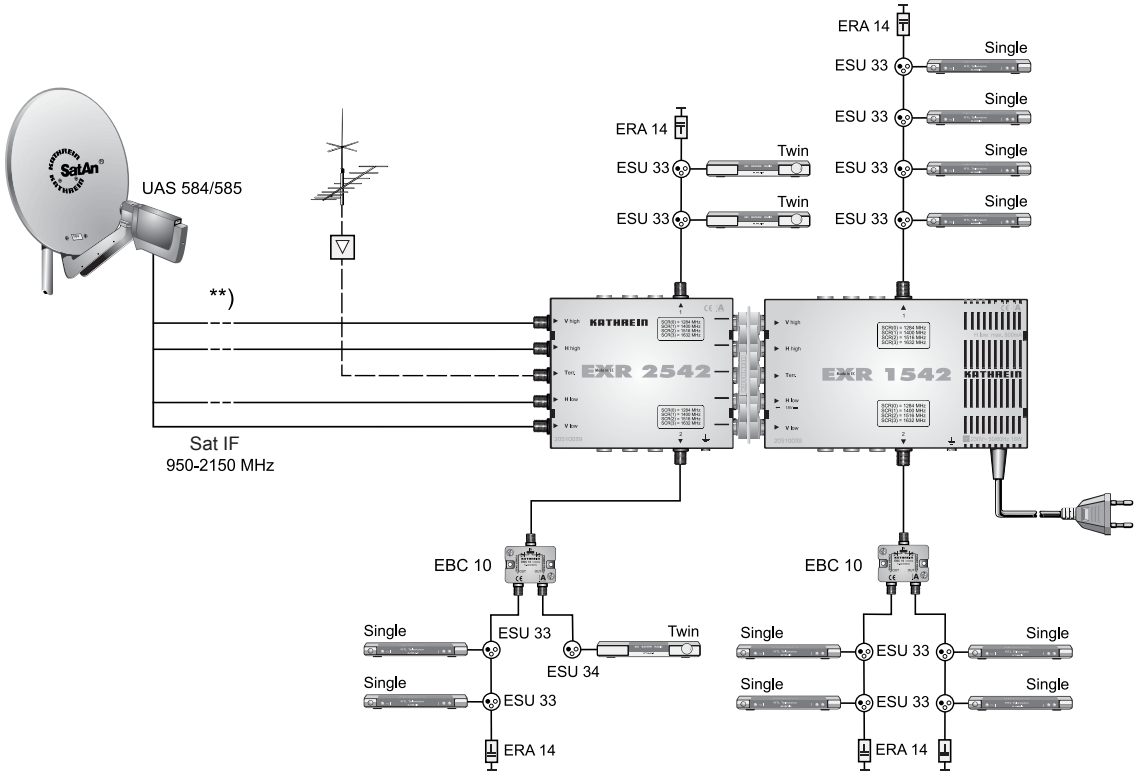


**) Overvoltage protection KAZ 11/KAZ 12

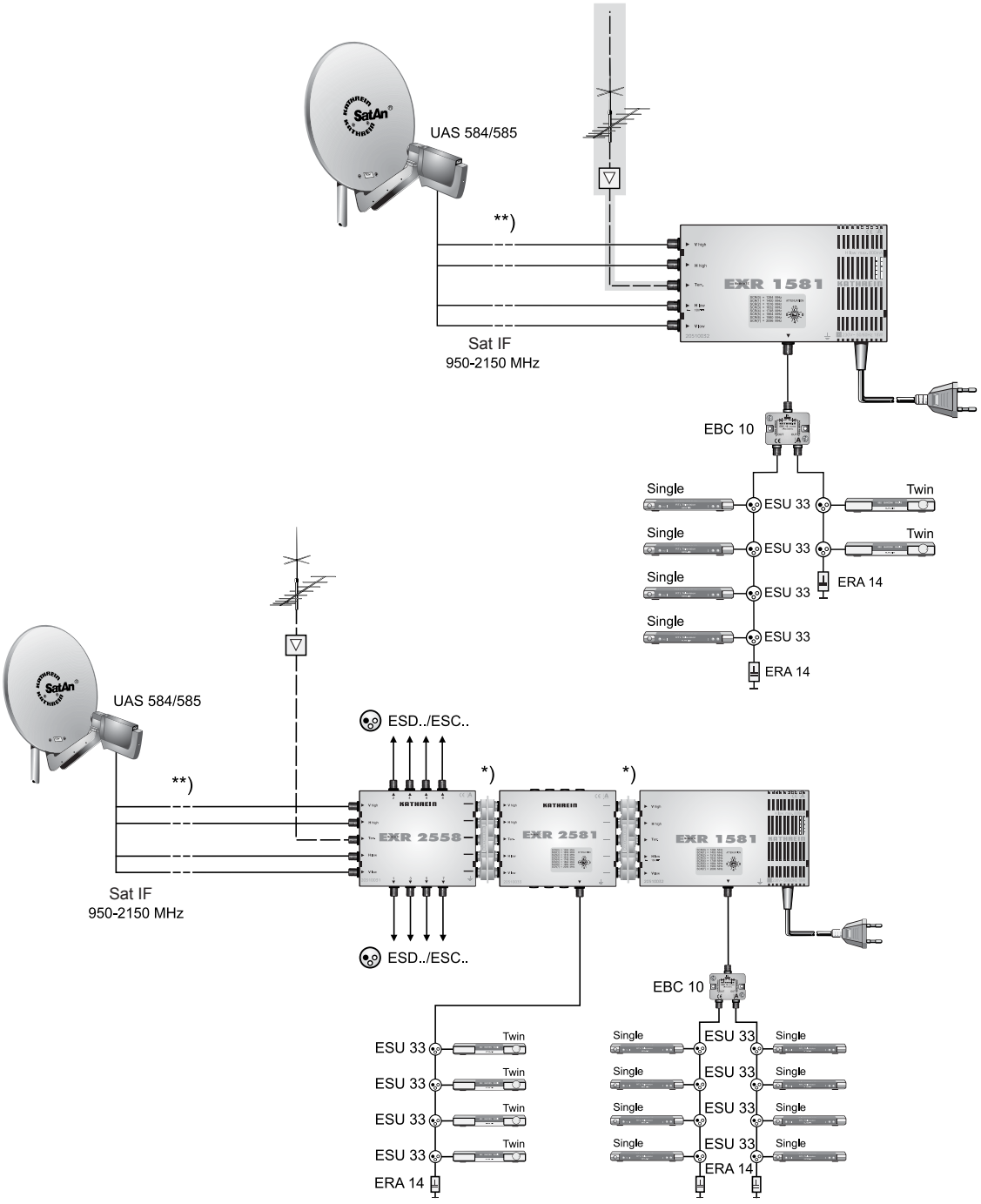
Single cable systems







**) Overvoltage protection KAZ 11/KAZ 12



**) Overvoltage protection KAZ 11/KAZ 12

For your notes

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